

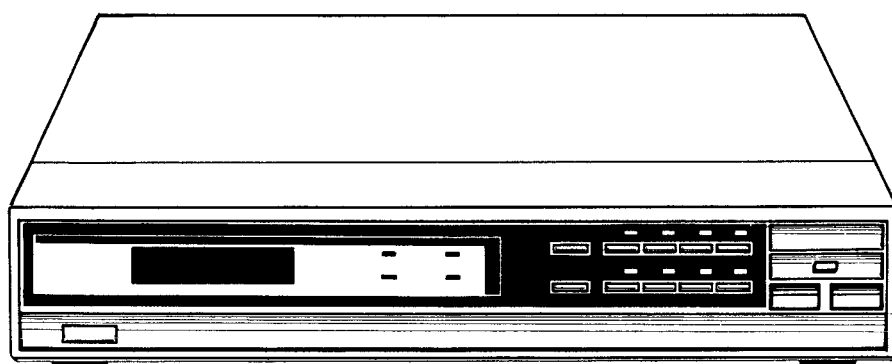


SERVICE MANUAL

MQ - 50T

STEREO SYNTHESIZER TUNER

CLATRONIC
AT 185/6



CONTENTS	PAGE
1. SPECIFICATIONS	1
2. LOCATION AND FUNCTION	2
3. ADJUSTMENTS	3
4. BLOCK DIAGRAM	5
5. IC AND TR LAYOUT	6
6. IC AND TR VOLTAGE	8
7. PCB PATTERN AND MARKING	12
8. SCHEMATIC DIAGRAM	13
9. WIRING DIAGRAM	15
10. EXPLODED VIEW	16
11. PARTS DESCRIPTIONS	17

1. SPECIFICATIONS

A. FM SECTION

- o Frequency Range (100kHz step area) 87.5-108.1MHz
..... (50kHz step area) 87.5-108MHz
- o Usable Sensitivity (IHF) 1.9 μ V
- o Sensitivity (50dB S/N) 3.0 μ V
- o S/N Ratio 65 dB
- o Selectivity (+/-300kHz) 40 dB
- o Total Harmonic Distortion MONO/STEREO 0.15/0.4%
- o Stereo Separation (100Hz) 40 dB
..... (1KHz) 45 dB
..... (10KHz) 35 dB
- o Image Rejection 60 dB
- o IF Rejection 75 dB
- o AM Suppresion 55 dB
- o Frequency Response (30Hz to 15kHz) +1, -3 dB

B. AM(MW) SECTION

- o Frequency Range (9kHz step area) 522-1611kHz
..... (10kHz step area) 520-1610kHz
- o Usable Sensitivity (IHF) 400 μ V
- o Selectivity 35 dB
- o S/N Ration 40 dB
- o Image Rejection 30 dB
- o IF Rejection 40 dB
- o Total Harmonic Distortion 1.5%

C. LW SECTION (OPTION)

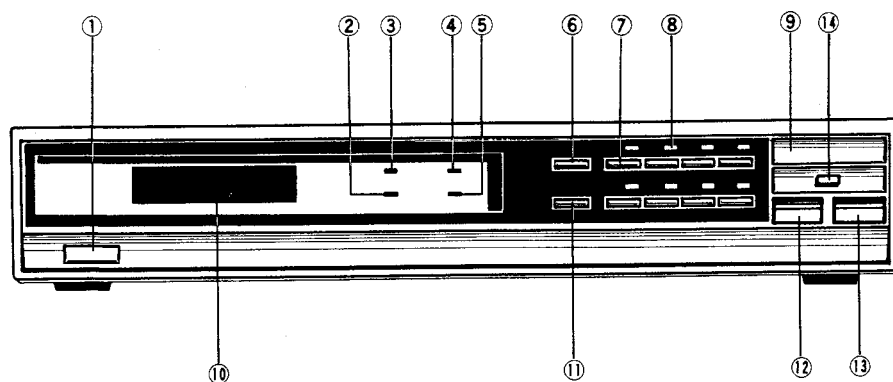
- o Frequency Range 153-360kHz
- o Usable Sensitivity (IHF) 600 μ V
- o S/N Ratio 35 dB
- o IF Rejection 30 dB

D. GENERAL

- o Dimensions W x H x D cm 30 x 20 x 6
- o Weight (unit) 2kg
..... (Packed) 2.8kg
- o Power consumption 6W

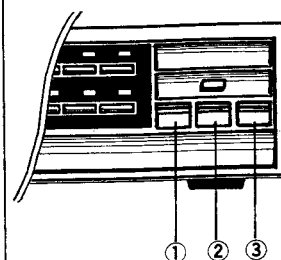
2. LOCATION AND FUNCTION

A. FRONT PANEL INFORMATION



- | | |
|------------------------|--|
| 1. POWER ON/OFF switch | 8. Preset indicator |
| 2. Tuning indicator | 9. Tuning UP/DOWN switch |
| 3. SHIFT indicator | 10. Frequency and band indicator (FL tube) |
| 4. FM stereo indicator | 11. Search switch |
| 5. Search indicator | 12. FM Band switch |
| 6. Memory switch | 13. AM Band switch |
| 7. Preset switch | 14. Mode switch |

3 BAND (LW OPTION)



- | |
|-------------------|
| 1. FM Band switch |
| 2. LW Band switch |
| 3. MW Band switch |

B. REAR PANEL INFORMATION

INSTALLATION

Install your new tuner in that way that it is not exposed to high temperatures. So avoid places near a heater or with direct sunlight.

Also do never set a vase filled with water on your unit. If water should come into the set, damages are inevitable.

STEREO AMPLIFIER

The two cinch-sockets at the rear of the set are the outputs of the tuner. They must be connected to the TUNER-input of your amplifier. Use the enclosed cinch-cable. Please notice that the red plug is always used for the right channel.

ANTENNAS

Antennas are vital elements for receiving radio broadcasts. In order to enjoy high quality FM sound, it is important to select the proper antenna and install it carefully.

AM(MW. LW) Antenna

Reception can be poor if the broadcast station is distant or if the set is being used in a ferro-concrete or similarly constructed building. In these cases install an outdoor antenna and connect it to the AM Antenna terminal.

FM Antenna

Connect the accessory feeder antenna to the 300 ohms FM Antenna terminals. Spread the antenna into a T shape and attach (maximum brightness of the signal indicator).

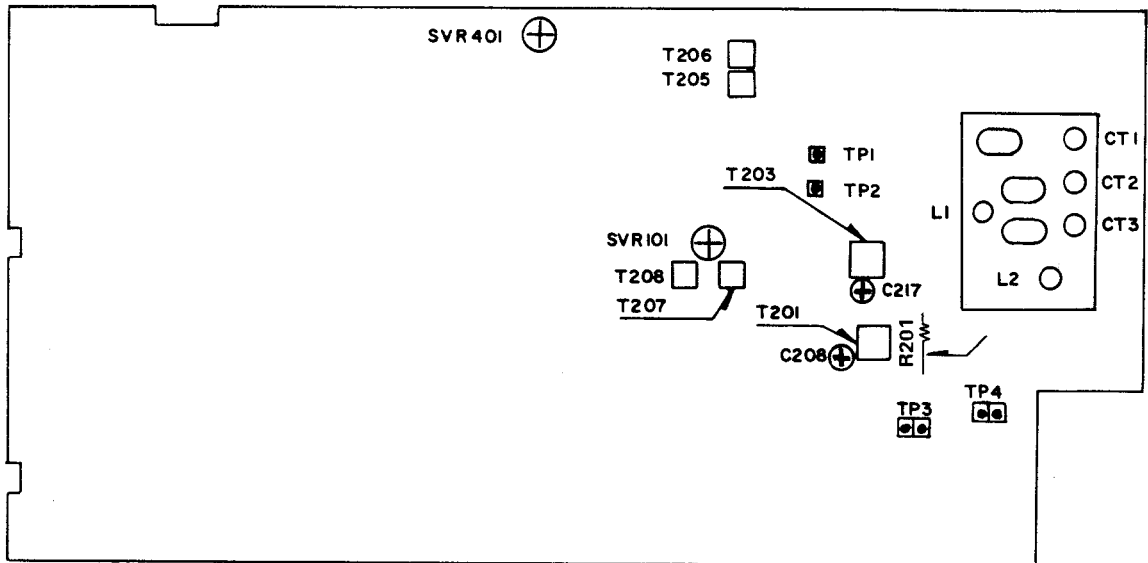
o Install antenna away from metallic structures such as metal window frames.

FM signals possess line of sight properties similar to light. Thus, if the station is distant or obstructed by buildings the signal strength becomes reduced and the accessory antenna may not provide sufficient input. In this case, an outdoor FM antenna should be erected.

Outdoor FM antennas are available in 300-ohms and 75-ohms types. Connect the antenna to the terminal that matches its impedance. In long distance reception of stereo broadcasts, reception depends greatly on the antenna direction. Determine the most favorable height and orientation when installing the antenna.

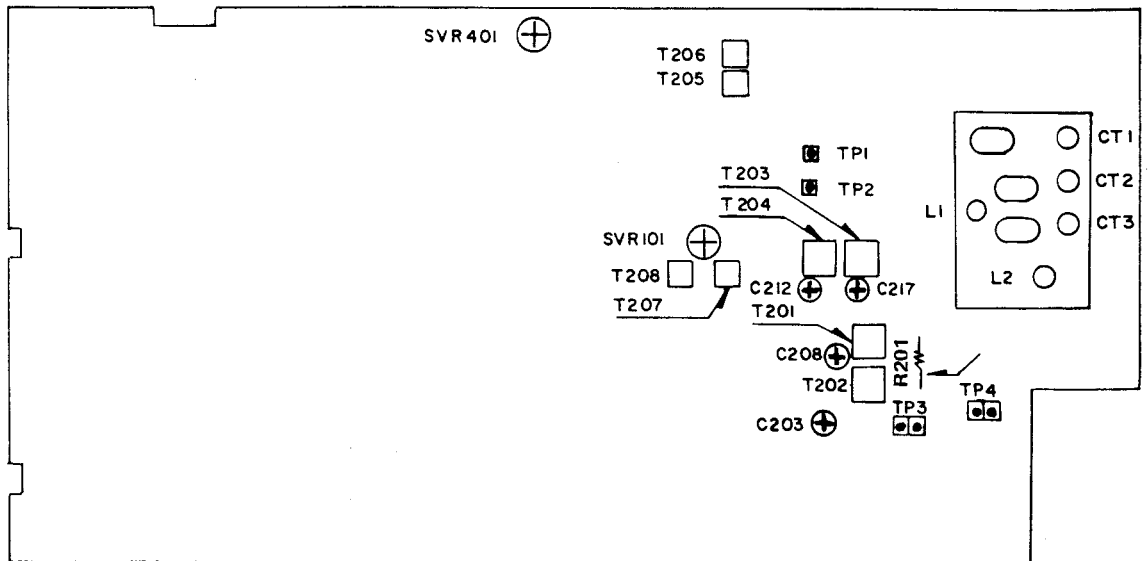
3. ADJUSTMENTS

A. 2 BAND



- | | |
|---|------------------------------|
| L1: FM IFT | T203: AM OSC COIL |
| L2: FM OSC COIL | C217: AM OSC TRIMMER |
| CT1: FM 90MHz SENSITIVITY (NOT ADJUST) | T201: AM ANT COIL |
| CT2: FM 98MHz SENSITIVITY (NOT ADJUST) | C208: AM ANT TRIMMER |
| CT3: FM 106MHz SENSITIVITY (NOT ADJUST) | T207, 208: AM IFT |
| T205: DETECTOR COIL (TUNING ADJUST) | SVR401: SEPARATION CONTROL |
| T206: DETECTOR COIL (DISTORTION ADJUST) | SVR101: MUTING LEVEL CONTROL |

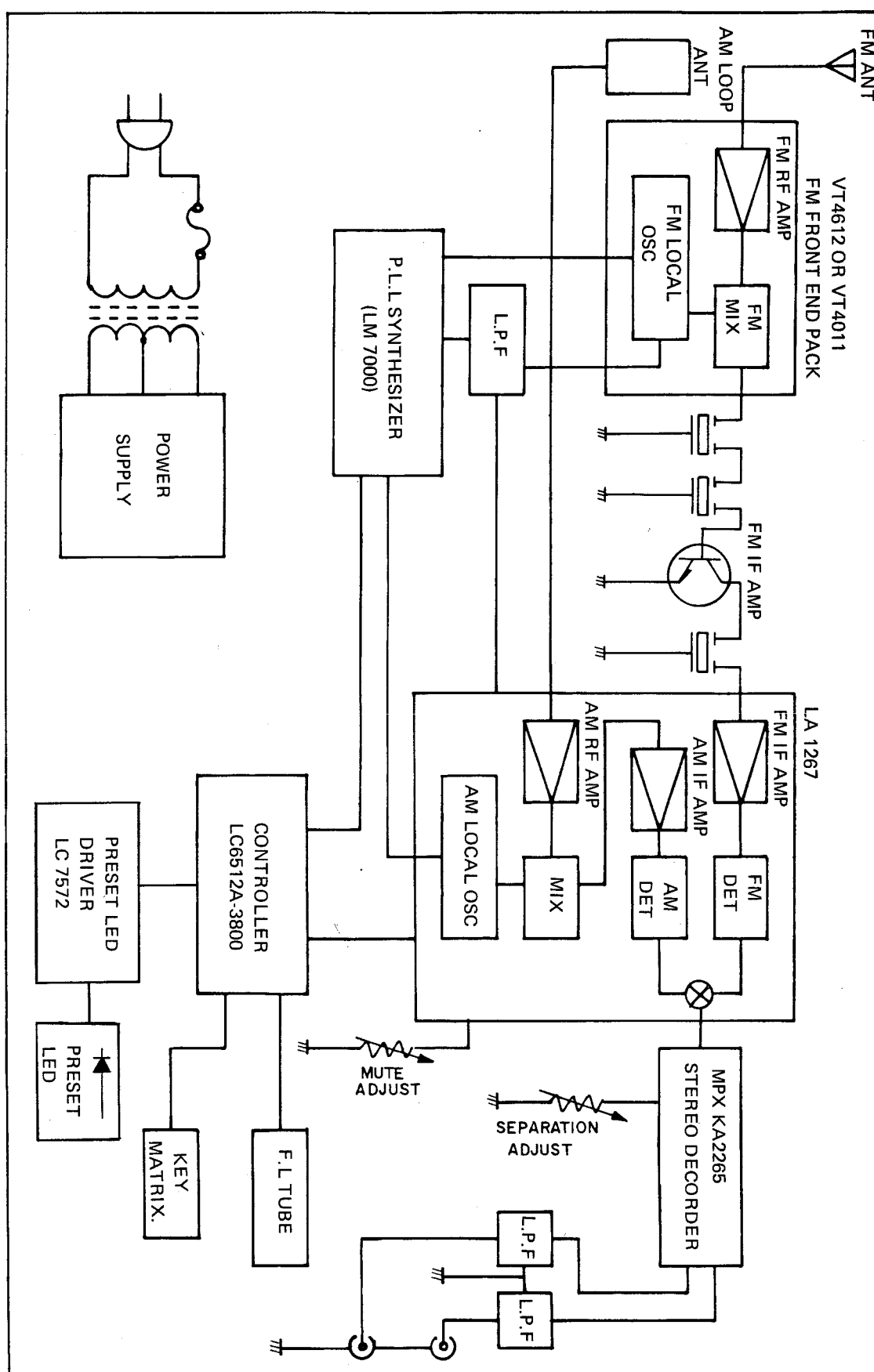
B. 3 BAND



- | | |
|---|------------------------------|
| L1: FM IFT | C212: LW OSC TRIMMER |
| L2: FM OSC COIL | C217: MW OSC TRIMMER |
| CT1: FM 90MHz SENSITIVITY (NOT ADJUST) | T201: MW ANT COIL |
| CT2: FM 98MHz SENSITIVITY (NOT ADJUST) | T202: LW ANT COIL |
| CT3: FM 106MHz SENSITIVITY (NOT ADJUST) | C208: MW ANT TRIMMER |
| T205: DETECTOR COIL (TUNING ADJUST) | C203: LW ANT TRIMMER |
| T206: DETECTOR COIL (DISTORTION ADJUST) | T207, 208: MW(LW) IFT |
| T203: MW OSC COIL | SVR401: SEPARATION CONTROL |
| T204: LW SOC COIL OSC COIL | SVR101: MUTING LEVEL CONTROL |

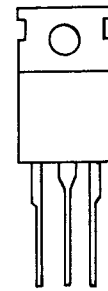
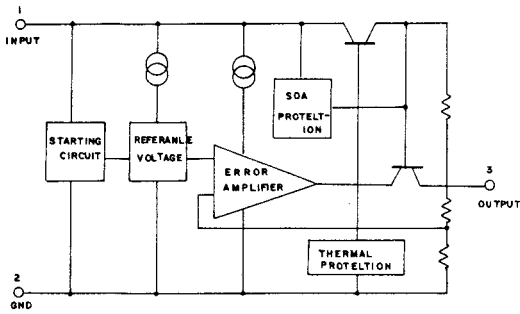
FM,RF, IF, ALIGNMENT						
STEP	SIGNAL SOURCE	SET SIGNAL TO	ALIGNMENT INDICATOR	SET INDICATOR TO	ADJUST	REMARK
	CONNECT TO		CONNECT TO			
1	FM SIGNAL GEN	87.5MHz MODULATED WITH 1KHz	DC. VOLT METER	87.5 MHz	L2 (FM OSC COIL)	ADJUST FOR 1.5±0.1AT TP2 TO CHASSIS GND
	FM ANT TERMINAL		TP3 AND TP4			
2	FM SIGNAL GEN	108.1MHz MODULATED WITH 1 KHz	DC. VOLT METER	108.1MHz (908 MHz)	NOT ADJUST	CHECKED 8.5V ±0.1 AT TP TO CHASSIS GND
	FM ANT TERMINAL		TP3 AND TP4			
3	REPEAT STEPS 1 AND 2 OBTAIN FREQUENCY RANGE					
4	CONNECT TUNING METER BETWEEN POINT TP3 AND TP4					
5	FM	98.1MHz (98MHz) MODULATED WITH 1KHz	TUNING METER	98.1MHz (98MHz)	T205	AJDUST FOR CENTER READING ON TUNING INDICATOR
	FM ANT TERMINAL		TP1 AND TP2			
6	FM	98.1MHz (98MHz) MODULATED WITH 1KHz	DISTORTION METER	98.1MHz (98MHz)	T206	ADJUST FOR MINIMUM READING ON. DISTOR- TION METER
	FM ANT TERMINAL		OUTPUT JACK			
FM MUTTING LEVEL AND SIGNAL LED ADJUSTMENT						
7	FM SSG	98.1MHz (98MHz) MODULATED MODULATION	VTVM	98.1MHz (98MHz)	SVR101 (MUTING LEVEL CONTROL)	SIGNAL SOURCE TO 20dB
	FM ANT TERMINAL		OUT PUT JACK			
SEPERATION ADJUSTMENT (SETTING FUNCTION SW FM MODE, STEREO)						
8	FM SSG	98.1MHz (98MHz) STEREO SIGNAL (L + R) (R ONLY)	V.T.V.M	98.1MHz (98MHz)	SVR401 (SEPERATION CONTROL)	ADJUST R310 FOR MAXIMUM SEPARATION
	FM ANT TERMINAL		OUTPUT JACK			
MW LW RF ALIGNMENT						
9	AM SSG	522kHz	DC VOLT METER	522kHz	T203 (MW OSC COIL)	ADJUST T203 FOR 0.8V +0.1 AT TP2 TO CHASSIS GND
	AM ANT TERMINAL		R201 AND GND			
10	AM SSG	1611 KHz	DC VOLT METER	1611 KHz	C217 (MW OSC TRIMMER)	ADJUST CT213 FOR 9V +0.1 AT TP2 TO CHASSIS GND
	AM ANT TERMINAL		R201 AND GNA			
11	REPEAT STEPS 9 AND 10 TO OBTAIN FREQUENCY RANGE					
12	AM SSG	153 kHz	DC VOLT METER	153 kHz	T204 LW OSC COIL)	ADJUST T204 FOR 0.8V+0.1 AT TP2 TO CHASSIS GND
	AM ANT TERMINAL		R201 AND GND			
13	AM SSG	360KHz	DC VOLT METER	360 kHz	C212 (LW OSC TRIMMER)	ADJUST CT212 FOR 9V+0.1 AT TP2 TO CHASSIS GND
	AM ANT TERMINAL		R201 AND GND			
14	REPEAT STEPS 12 AND 13 TO OBTAIN FREQUENCY RANGE					
AM IF ALIGNMENT						
15	AM IF SWEEP GEN	SWEEP CENTERE 450kHz	OSCILLOSCOPE	(MIN. FREQ)	T208 T207	MAXIMUM GAIN AND SYMMETRY CURVE
	AM ANT TERMINAL		OUT PUT JACK			
MW, LW, RF ALIGNMENT						
16	AM SIGNAL GEN	603 kHz	V.T.V.M	603 kHz	T201 MW (ANT COIL)	MAXIMUM GAIN
	AM ANT TERMINAL		OUT PUT JACK			
17	AM SIGNAL GEN	1404kHz	V.T.V.M	1404 kHz	C208 MW (ANT TRIMMER)	MAXIMUM GAIN
	AM ANT TERMINAL		OUT PUT JACK			
18	REPEAT STEPS 16 AND 17 FOR MINIMUM CHANGE					
19	AM SIGNAL GEN	175 kHz	V.T.V.M	175 kHz	T202 LW (ANT COIL)	MAXIMUM GAIN
	AM ANT TERMINAL		OUT PUT JACK			
20	AM SIGNAL GEN	320 kHz	V.T.V.M	320 kHz	C203 LW (ANT TRIMMER)	MAXIMUM GAIN
	AM ANT TERMINAL		OUT PUT JACK			
21	REPEAT STEPS 19 AND 20 FOR MINIMUM CHANGE					

4. BLOCK DIAGRAM



5. IC AND TR LAYOUT

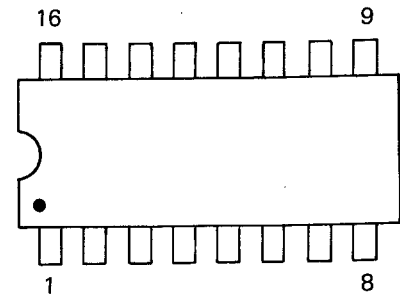
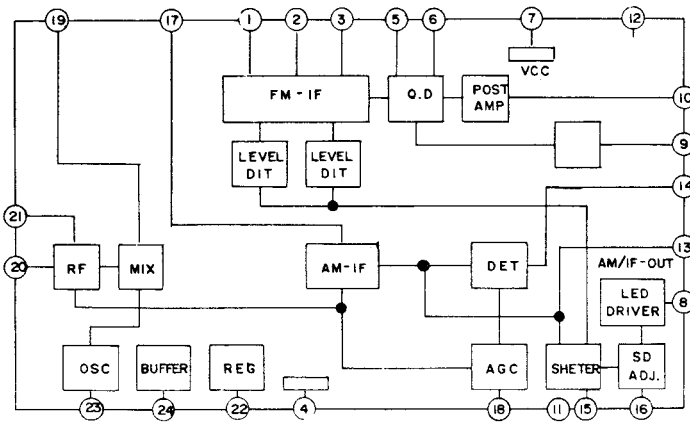
L78M12



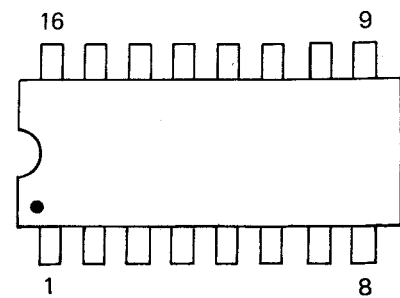
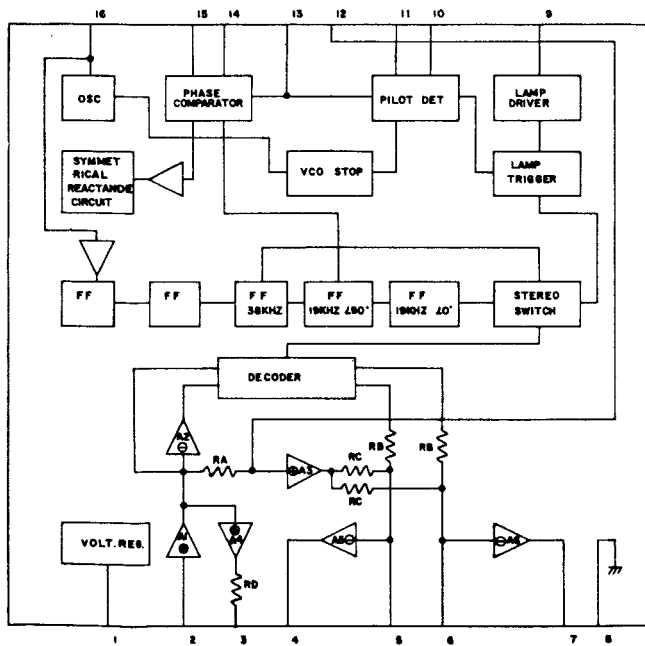
1. INPUT
2. GND
3. OUTPUT

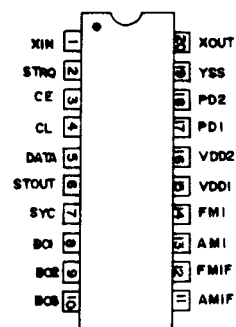
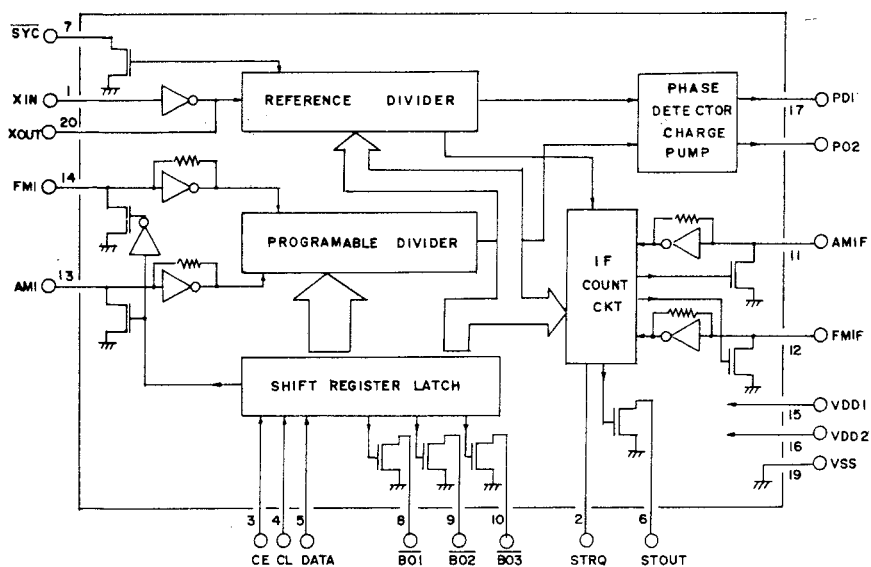
1 2 3

LA1267



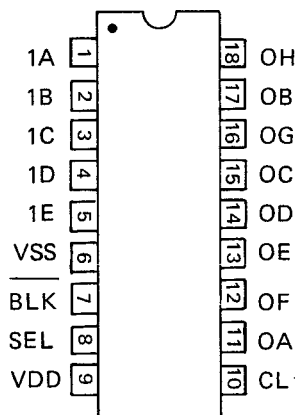
KA2265



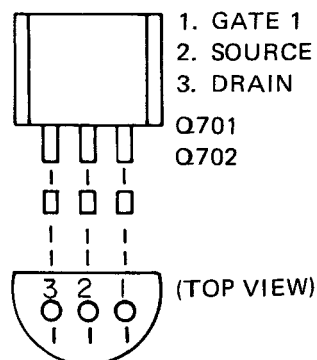
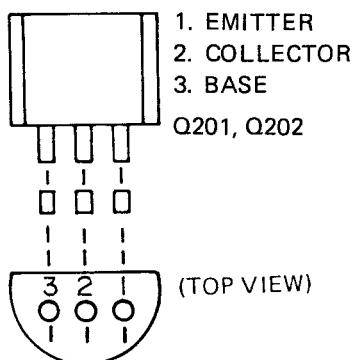
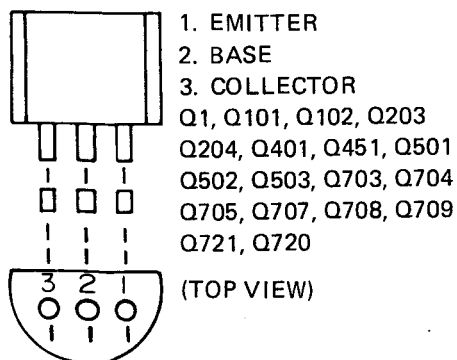
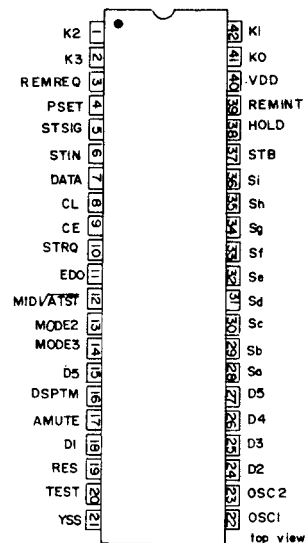


LM7000

LC7572



LC6512A-3800



6. IC AND TR VOLTAGE

A. 2 BAND

IC 201 LA 1267

NO	1	2	3	4	5	6	7	8	9	10	11	12
FM	2.3	2.3	2.3	0	11.0	11.0	11.0	9.7	3.8	3.0	1.5	0
AM	1.1	1.1	1.1	0	11.1	11.1	11.1	11.5	3.6	3.0	1.4	0

NO	13	14	15	16	17	18	19	20	21	22	23	24
FM	1.1	1.5	0.1	0.1	2.3	1.5	0	0	0	3.9	3.9	2.7
AM	1.1	1.6	0	0	1.1	1.5	11.3	2.0	2.0	3.7	3.7	1.6

IC 401 KA 2265

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FM	11.4	3.1	3.1	2.9	3.0	3.0	2.9	0	10.5	2.4	3.5	3.1	3.2	3.0	3.2	3.2
AM	11.4	3.1	3.1	2.9	3.0	3.0	2.9	0	10.6	2.4	5.6	3.1	4.1	3.8	5.0	2.1

IC 701 LM 7000

NO	1	2	3	4	5	6	7	8	9	10
FM	1.6	0	0	0	0	5.6	0	0	11.5	0.4
AM	1.6	0	0	0	0	4.7	0	0	0.4	11.5

NO	11	12	13	14	15	16	17	18	19	20
FM	0.1	0.1	0.1	2.7	4.7	4.7	1.0	1.0	0	1.2
AM	0.1	0.1	1.7	0	4.7	4.7	1.0	0.5	0	1.2

IC 702 LC 6512A-3800

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FM	0	0	4.7	4.8	4.7	5.6	0	0	0	0	0	0	4.8	0
AM	0	0	4.7	4.8	4.7	4.7	0	0	0	0	0	4.8	0	0

NO	15	16	17	18	19	20	21	22	23	24	25	26	27	28
FM	-0.1	4.8	0	-19	4.6	0	0	2.3	2.6	-19	-19	-19	-19	-15
AM	-0.1	4.8	-2.5	-19	4.6	0	0	2.3	2.6	-19	-19	-19	-19	-10

NO	29	30	31	32	33	34	35	36	37	38	39	40	41	42
FM	-10	-10	-15	-15	-15	-15	0	0	0	5.3	4.7	4.8	0	0
AM	-10	-10	-10	-24.1	-6.4	-10	0	1.2	0	5.3	4.7	4.8	0	0

IC 703 LC 7572

NO	1	2	3	4	5	6	7	8	9
FM	1.3	1.9	1.9	1.3	0	0	5.4	0	5.5
AM	1.9	1.9	1.9	1.9	0	0	5.4	0	5.4

NO	10	11	12	13	14	15	16	17	18
FM	0	0	5.1	5.1	0	0	5.1	0	5.1
AM	0	0	5.1	5.1	0	0	5.1	0	5.1

TRANSISTOR

TR	LOCATION NO		Q1		Q101		Q102		Q401		Q405	
E	F M	A M	0	0	0.4	0	10.5	11.5	0	0	0	0
B			0	0	1.1	0	9.9	10.8	-0.7	-3.1	-3.1	-3.1
C			3.7	0	7.9	0	10.5	11.5	0	0	0	0

TR	Q501		Q502		Q709		Q703		Q704		Q705	
E	11.8	11.8	11.8	11.8	0	0	0	0	5.6	4.7	4.4	9.6
B	11.0	11.5	11.5	11.0	0	0	-3.9	-3.9	9.1	11.4	3.8	11.4
C	11.7	0	-0.1	11.8	4.0	4.0	11.5	11.5	9.8	11.5	4.4	-2.9

TR	Q707		Q708		Q720		Q721	
E	0.6	0.6	0	0	11.8	11.8	0	0
B	0.6	0.6	0.2	0.3	11.8	11.8	0	-2.5
C	10.2	10.3	0.6	0.6	0	-2.9	11.8	11.8

IC 501 L78 M12

IN	21
OUTPUT	12

B. 3 BAND

IC 201 LA 1267

NO	1	2	3	4	5	6	7	8	9	10	11	12
FM	2.3	2.3	2.3	0	11.0	11.0	11.0	9.7	2.8	3.0	1.5	0
MW	1.1	1.1	1.1	0	11.1	11.1	11.1	11.5	3.6	3.0	1.4	0
LW	1.1	1.1	1.1	0	11.1	11.1	11.1	11.5	3.6	3.0	1.4	0
NO	13	14	15	16	17	18	19	20	21	22	23	24
FM	1.1	1.5	0	0	2.3	1.5	0	0	0	3.9	3.9	2.7
MW	1.1	1.6	0	0	1.1	1.5	11.3	2.0	2.0	3.7	3.7	1.6
LW	1.1	1.6	0	0	1.1	1.5	11.3	2.0	2.0	3.7	3.7	1.6

IC 401 KA 2265

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FM	11.4	3.1	3.1	2.9	3.0	3.0	2.9	0	10.5	2.4	3.5	3.1	3.2	3.0	3.2	3.2
MW	11.4	3.1	3.1	2.9	3.0	3.0	2.9	0	10.5	2.4	5.6	3.1	4.1	3.8	5.0	2.0
LW	11.4	3.1	3.1	2.9	3.0	3.0	3.0	0	10.5	2.4	5.6	3.1	4.1	3.8	5.0	2.0

IC 701 LM7000

NO	1	2	3	4	5	6	7	8	9	10
FM	1.6	0	0	0	0	5.6	0	11.6	11.6	0.5
MW	1.6	0	0	0	0	4.7	0	11.6	0.4	11.6
LW	1.6	0	0	0	0	4.7	0	0.4	11.6	11.6
NO	11	12	13	14	15	16	17	18	19	20
FM	0.1	0.1	0.1	2.7	4.5	4.5	1.0	1.0	0	1.2
MW	0.1	0.1	1.7	0	4.5	4.5	1.0	1.2	0	1.2
LW	0.1	0.1	1.7	0	4.5	4.5	1.0	1.2	0	1.2

IC 702 LC 6512A-3800

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FM	0	0	4.5	4.6	4.7	5.5	0	0	0	0	0	0	0	0
MW	0	0	4.5	4.6	4.7	4.6	0	0	0	0	0	0	0	0
LW	0	0	4.5	4.6	4.7	4.6	0	0	0	0	0	0	0	0
NO	15	16	17	18	19	20	21	22	23	24	25	26	27	28
FM	-0.2	4.6	0	-19	4.6	0	0	2.2	2.3	-19	-19	-19	-19	-6.1
MW	-0.2	4.6	-2.5	-19	4.6	0	0	2.2	2.3	-19	-19	-19	-19	-10.6
LW	-0.2	4.6	-2.5	-19	4.6	0	0	2.2	2.3	-19	-19	-19	-19	-15.2
NO	29	30	31	32	33	34	35	35	37	38	39	40	41	42
FM	-10.7	-6.1	-10.7	-11.3	-10.7	-15.1	0	0	0	5.13	4.5	4.6	0	0
MW	-15.2	-19	-10.7	-15.2	-15.9	-10.6	0	1.1	0	5.13	4.5	4.6	0	0
LW	-15.2	10.6	-15.2	-24.4	-19.8	-11.4	0	1.1	0	5.13	4.5	4.6	0	0

IC 703 LC 7572

NO	1	2	3	4	5	6	7	8	9
FM	1.8	2.5	2.5	1.8	0	0	5.28	0	5.3
MW	1.8	1.8	1.8	1.8	0	0	5.28	0	5.3
LW	1.8	1.8	1.2	1.8	0	0	5.28	0	5.3

NO	10	11	12	13	14	15	16	17	18
FM	0	0	4.9	4.9	0	0	4.9	0	4.9
MW	0	0	4.9	4.9	0	0	4.9	0	4.9
LW	0	0	4.9	4.9	0	0	4.9	0	4.9

TRANSISTOR

TR	LOCATION NO			Q1			Q101			Q102			Q401			Q405		
E	F M	M W	L W	0	0	0	0.4	0	0	10.8	11.6	11.6	0	0	0	0	0	0
B				0	0	0	1.1	0	0	10.8	10.9	10.9	0.7	-3.1	-3.1	0.7	-3.1	-3.1
C				3.8	0	0	8.1	0	0	10.8	11.6	11.6	0	0	0	0	0	0

TR	Q501			Q502			Q709			Q703			Q704			Q705		
E	11.9	11.9	11.9	11.9	11.9	11.9	0	0	0	0	0	0	5.3	4.5	4.5	4.5	9.6	9.6
B	11.2	11.7	11.7	11.7	11.2	11.7	0	0	0	-3.4	-3.4	-3.4	9.5	11.5	11.6	3.8	11.5	11.5
C	11.9	0	0	0	11.9	0	3.9	3.9	3.9	0	0	0	0	11.6	11.6	4.4	-2.9	-2.9

TR	Q707			Q708			Q720			Q721			Q201			Q201		
E	0.5	0.5	0.5	0	0	0	11.9	11.9	11.9	0	0	0	0	0	0	0	0	0
B	0.5	0.5	0.5	0.3	0.3	0.3	11.9	11.9	11.9	0	-2.6	-2.6	0	0	0.7	0	0.7	0
C	10.4	10.4	10.4	0.5	0.5	0.5	0	-2.9	-2.9	11.9	11.9	11.9	0	0	0	0	0	0

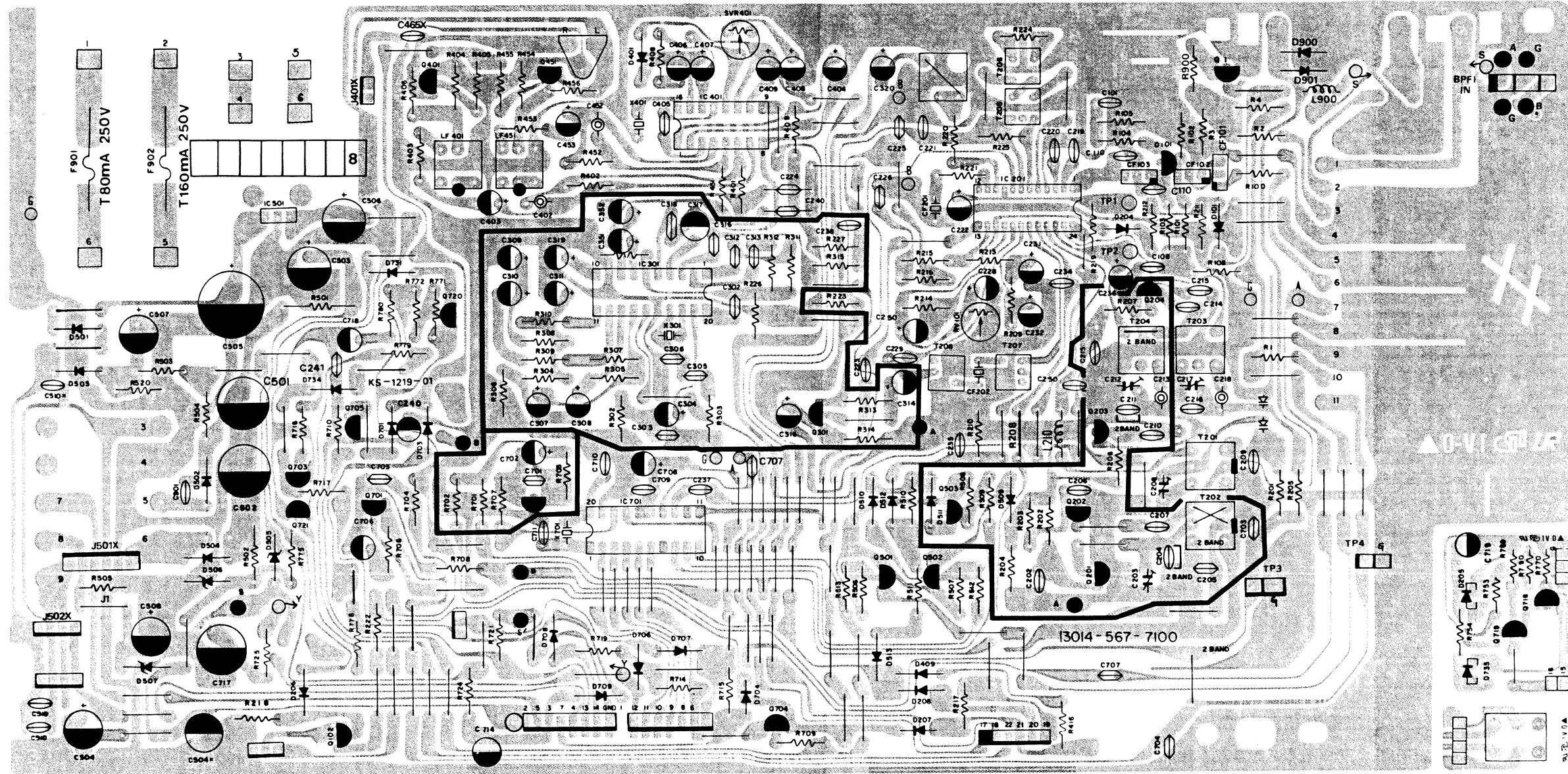
TR	Q203			Q204			Q503		
E	0	0	0	0	0	0	11.9	12.9	11.9
B	0	0.7	0	0	0.7	0	11.7	11.7	0
C	0	0	0.7	0	0	0	0	0	11.9

IC 501 L78 M12

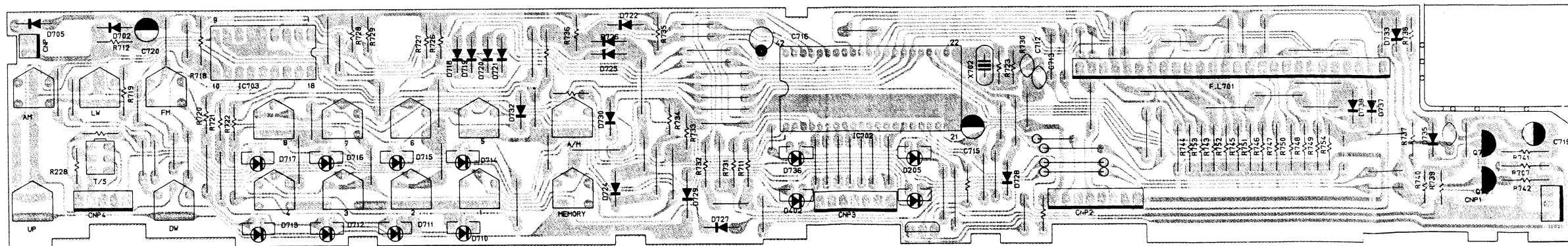
IN	21
OUTPUT	12

7. PCB PATTERN AND MARKING

MAIN PCB (PART SIDE)

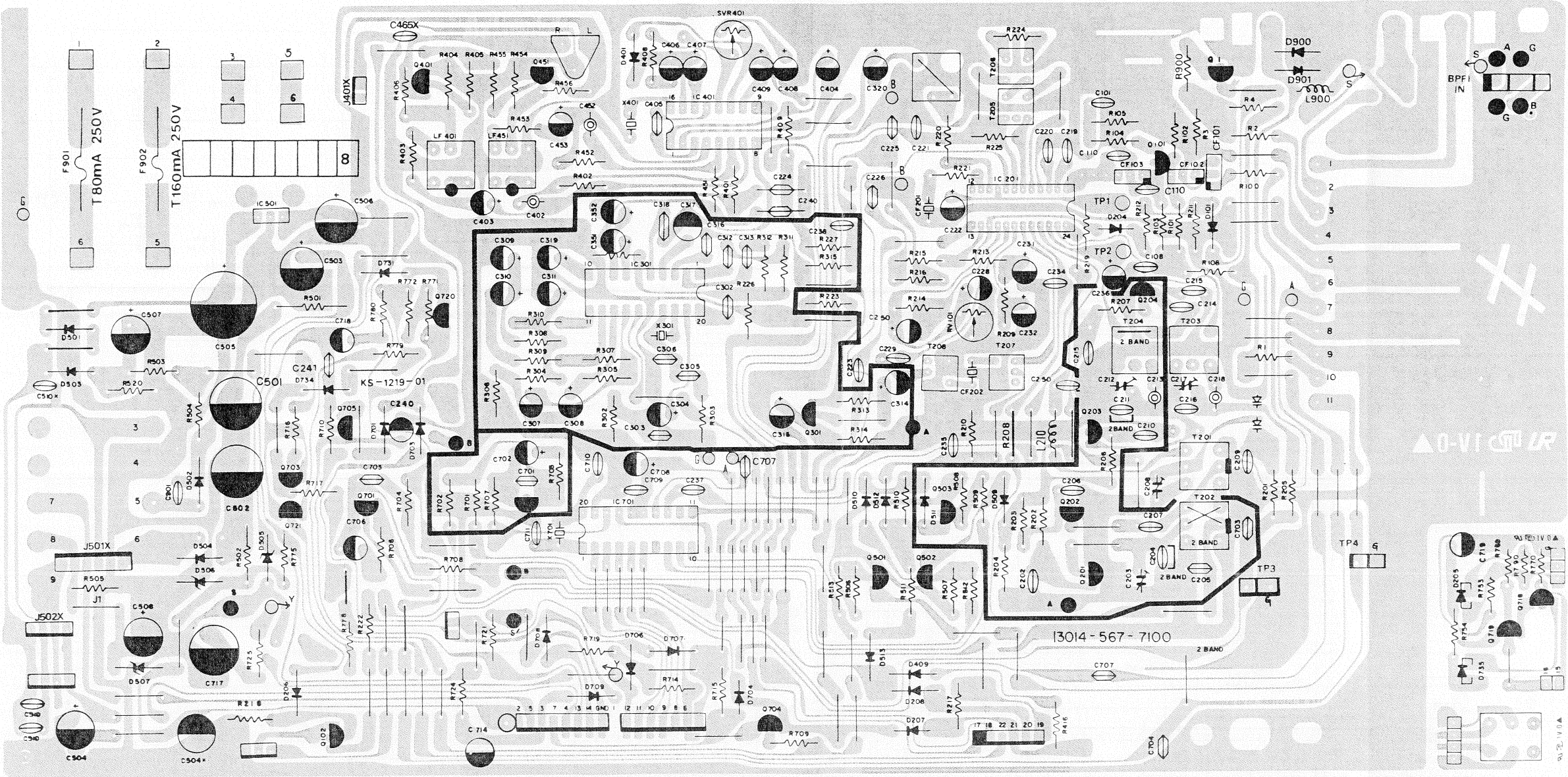


FRONT PCB (PART SIDE)

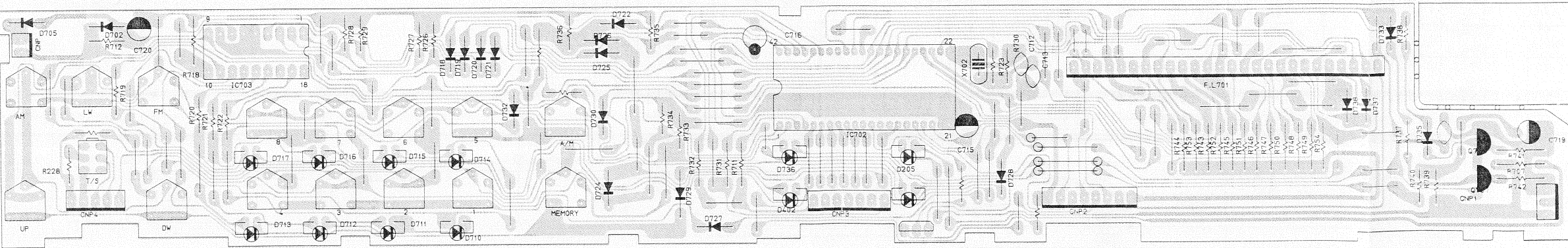


7. PCB PATTERN AND MARKING

MAIN PCB (PART SIDE)

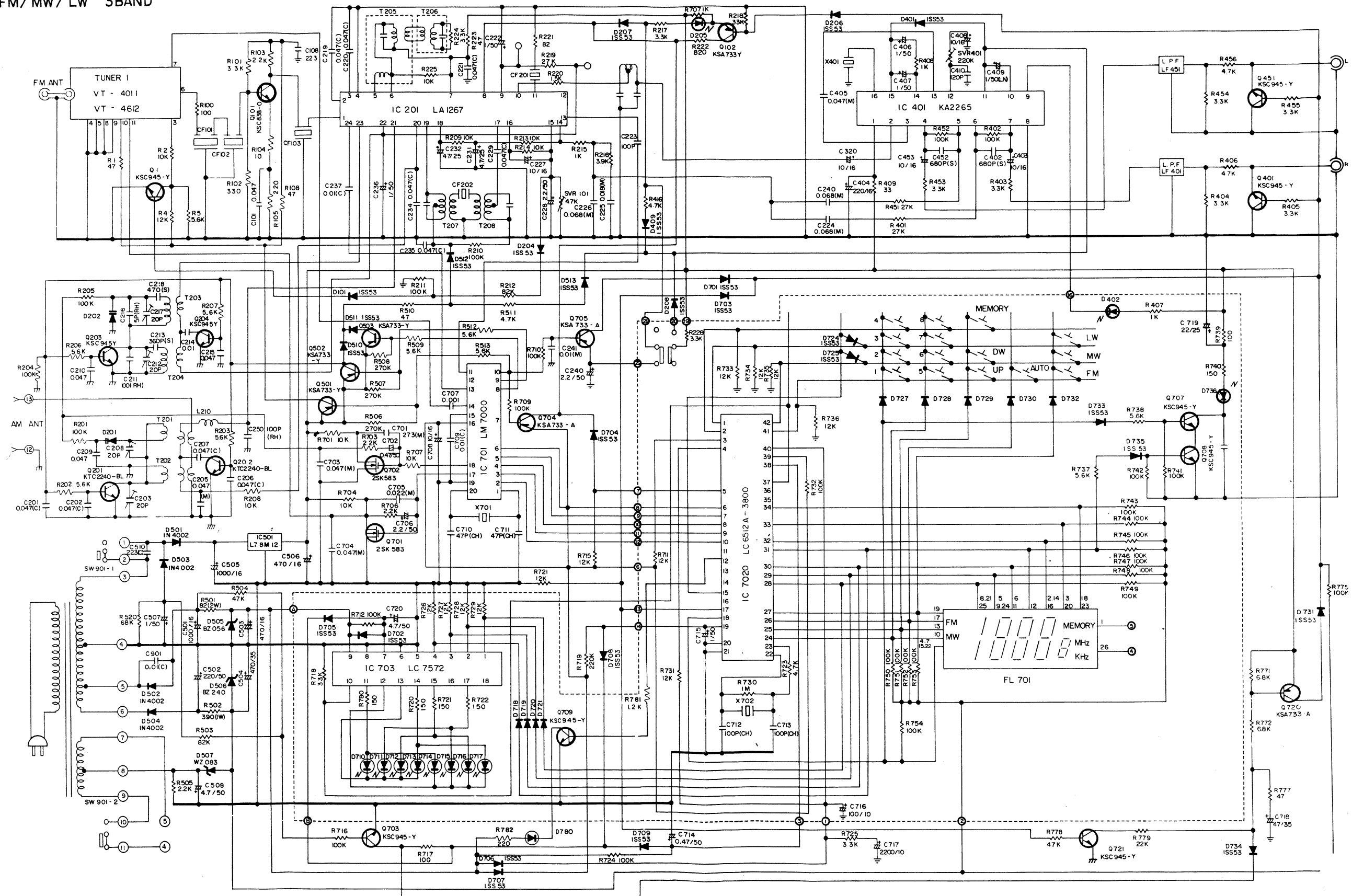


FRONT PCB (PART SIDE)

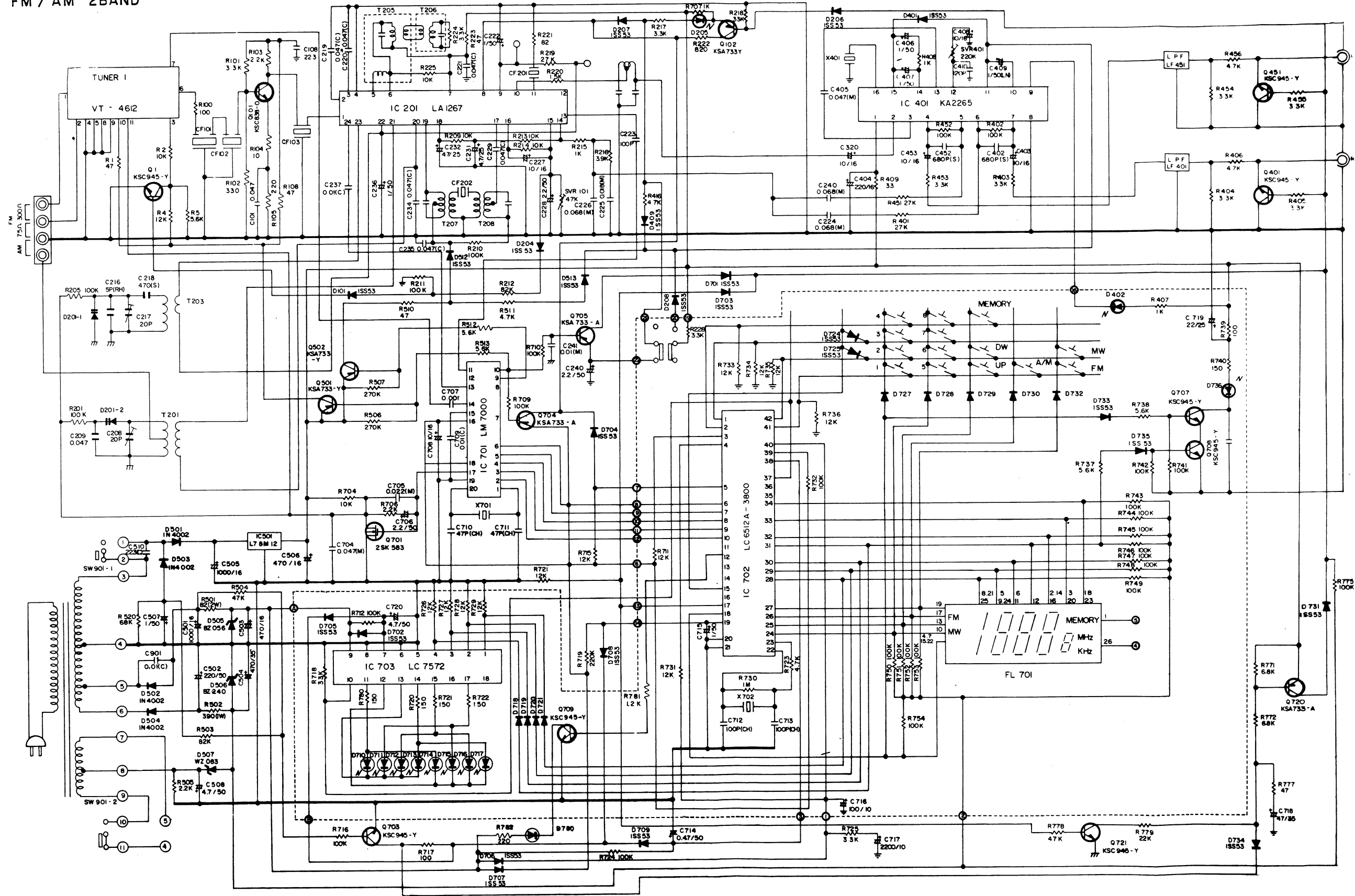


8. SCHEMATIC DIAGRAM

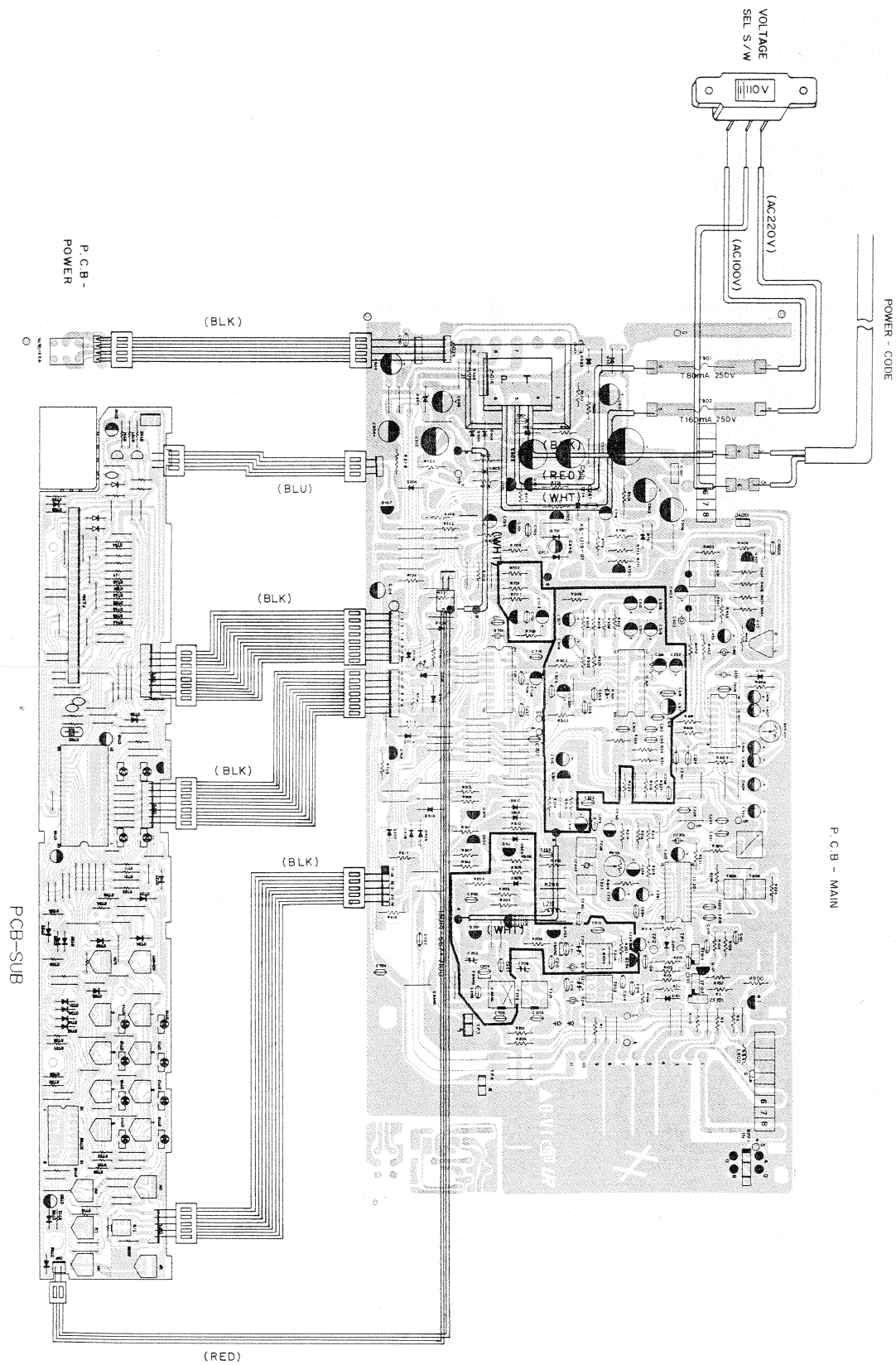
(I) FM/MW/LW 3BAND



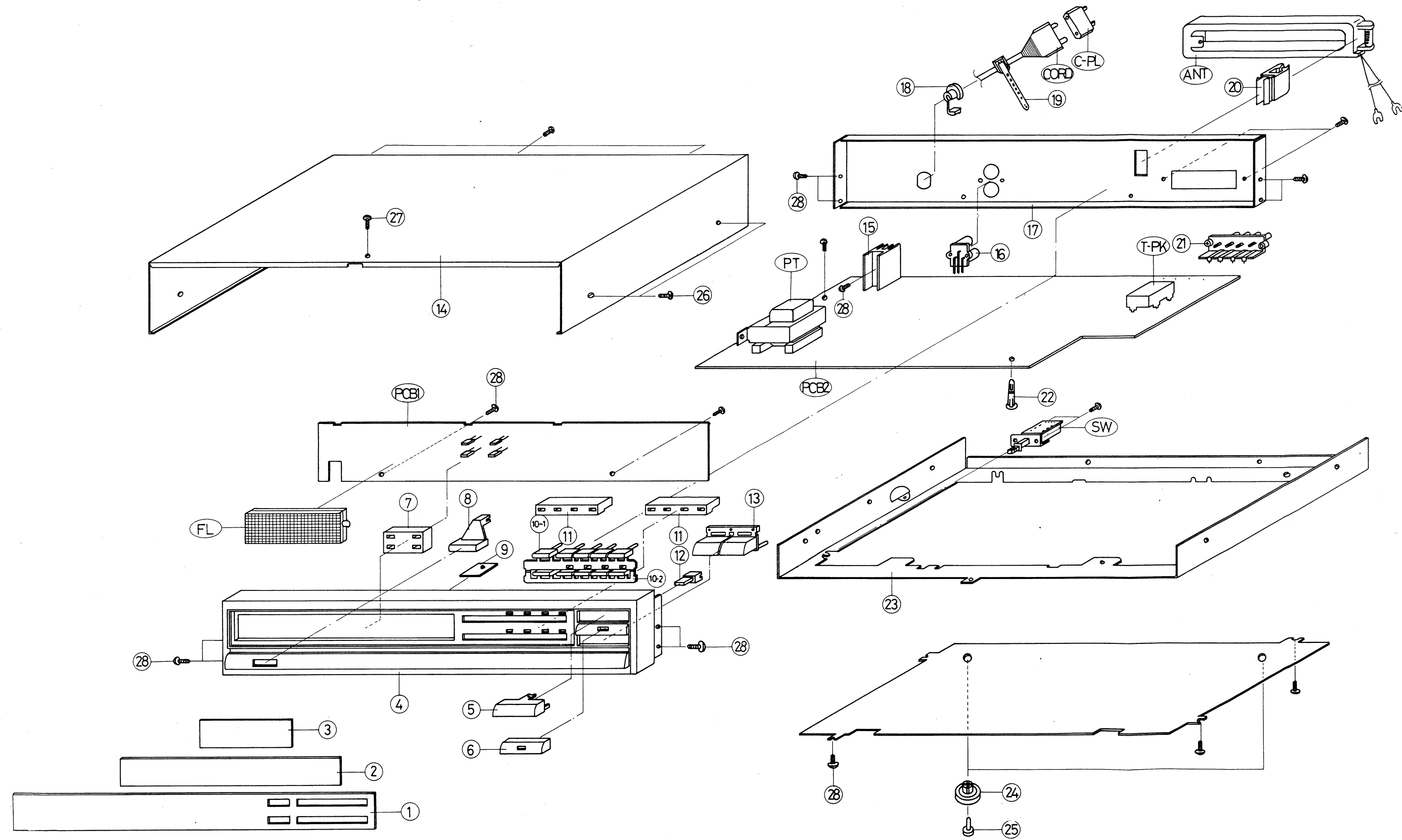
(2) FM / AM 2BAND



9. WIRING DIAGRAM



10. EXPLODED VIEW



11. PARTS DESCRIPTIONS

A. ELECTRIC PARTS

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	REMARK
TUNER 1	14519-809-010	FM FRONT END PACK	VT-4612	3 BAND
TUNER 1	14519-809-020	FM FRONT END PACK	VT-4011 (FTZ)	
FL701	12319-101-140	FIP TUBE	FIP7D8G	
	12319-101-070	FIP TUBE	FIP 7G8	
IC201	12119-202-510	IC-AM, FM IF	LA1267	3 BAND
IC401	12119-201-620	IC-MPX	LA3410	
IC501	12119-601-120	IC-REGULATOR	L78M12/NJM-78M 12A	
IC701	12119-202-850	IC-FREQ, SYNTHESIZER	LM7000	
IC702	12109-401-020	IC-PLL CONTROLLER	LC6512-3800	3 BAND
IC703	12109-401-040	K-PRESET LED DRIVER	LC7572	
Q102, 501, 502	12139-103-380	TRANSISTOR	KSA733-Y	
Q704, 705, 720		TRANSISTOR	KSA733-Y	
Q503		TRANSISTOR	KSA733-Y	
Q1, 401, 451		TRANSISTOR	KSC945-Y	3 BAND
Q708, 721, 703	12139-302-740	TRANSISTOR	KSC 945-Y	
Q707		TRANSISTOR	KSC945-Y	
Q203, 204		TRANSISTOR	KSC945-Y	
Q201, 202	12139-305-670	TRANSISTOR	KTC 2240-BL	3 BAND
Q101	12139-301-850	TRANSISTOR	KSC 838-0	3 BAND
Q701	12139-601-200	TRANSISTOR-SILICON	2SK 583	
Q702	12139-601-200	TRANSISTOR-SILICON	2SK 583	
Q501-504	12169-201-060	DIODE-RECT	1N4002;-1.0A 100V	
D507	12169-403-290	DIODE-ZN	500MW 7.7-8.7V UZ-8.2BM	3 BAND
D506	12169-403-890	DIODE-ZN	1W 22.8-25.5V UZR 24B	
D505	12159-404-110	DIODE-ZN	RD 5.6FB/UZP-5.6B	
D201	12169-501-005	DIODE	KV1236	
D402	12309-104-340	LED	SLB-25VR (RED)	3 BAND
D205, 736	12309-104-350	LED	SLB-25MG (GRN)	
D710-717	12309-104-390	LED	SLB-25DU (AMB)	
D101, 204, 206	12169-301-290	DIODE-SW	1SS53/1N4148, CT: 6PF	
D207, 208, 401		DIODE-SW	1SS53/1N4148, CT: 6PF	3 BAND
D409, 512, 513		DIODE-SW	1SS53/1N4148, CT: 6PF	
D702		DIODE-SW	1SS53/1N4148, CY: 6PF	
D718, 719, 720		DIODE-SW	1SS53/1N4148, CT: 6PF	
D721, 724, 725		DIODE-SW	1SS53/1N4148, CT: 6PF	
D727-738		DIODE-SW	1SS53/1N4148, CT: 6PF	
D900, 901		DIODE-SW	1SS53/1N4148, CT: 6PF	
D510, 511, 509		DIODE-SW	1SS53/1N4148, CT: 6PF	
DIODE-SW		1SS53/1N4148, CT: 6PF		

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	REMARK
CF101-3	14529-301-760	FILTER-CERAMIC	SFE 10.7MA8H-A (RED)	3 BAND
CF101-3	14529-301-770	FILTER-CERAMIC	SFE 10.7MJ (RED)	
CF101-3	14529-301-750	FILTER-CERAMIC	SFE 10.7MS3G-A (RED)	
CF201	14529-302-110	FILTER-CERAMIC	AHC FM2-450BLL	
CF202	14529-302-070	FILTER-CERAMIC	BFU450C-4N	3 BAND
X401	14539-501-400	CERAMIC-FILTER	CSB456F11	
X701	14539-501-050	CRYSTAL	HC-18/U 7.2MHz	
X702	11479-001-030	CERAMIC-RESONATOR	CSB400P	
T201	12619-410-901	TRANS-TEN, CAN	AF220UH FMW BLK	3 BAND
T202	12619-566-913	TRANS-TEN, CAN	AF2.4MH FLW RED	
T204	12619-547-502	COIL-TEN CAN	AD 330 H 796KHz BRN	
T203	12619-545-003	TRANS-IF	RWR-K111018 x 2-KR	
T205	12619-240-100	TRANS-FM DET 1	7MMCAN, 10.7MHz	2 VOLTAGE
T206	12619-026-307	TRANS-FM DET 2	7MMCAN, 10.7MHz	
T207	12749-602-050	TRANS-IF	7HC-K 511N-KR	
T208	12749-602-060	TRANS-IF	7MC-K 5112N-KR	
LF301, 351	12450-304-040	LOW PASS FILTER	FV-A D-BASE 19K/38K 10MM	VDE
SVR101	11249-102-060	VR-SEMI	SR 19R B47K	
SVR401	11249-102-090	VR-SEMI	SR 19R B220K	
F901 F902	13014-572-510	PWB-FRONT	330 x 122 P4 1V-0 1.6T	
	13014-567-710	PWB-MAIN	330 x 163.5 P4 1V-0 1.6T	UL
	13529-203-950	SWITCH-PUSH	SUL 12	
	14509-211-010	ANT-AM LOOP	LA50, S-074-27P	
	14709-241-420	FUSE	T250V 0.16A 20EUR	BS
	14709-241-080	FUSE	T250V 80MA 20EUR	
	12869-213-410	TRANS-POWER	EI 18 x 15.5 100/220V	
	12869-213-420	TRANS-POWER	EI 18 x 15.5 220V	
	12869-213-430	TRANS-POWER	EI 18 x 15.5 120V	SEAA
	12869-213-440	TRANS-POWER	EI 18 x 15.5 240V	
	13053-500-210	POWER CORD-AC	BS6500 GTBS 2.5M	
	13053-808-210	POWER CORD-AC	KP-560 LTSA-2F 0.75M	
	13053-802-010	POWER CORD-AC	KKP-419C KLCZ-2F 7FT	VDE
	13053-808-090	POWER CORD-AC	KKP-8 SPT-2 # 28 7FT	
	13053-806-310	POWER CORD-AC	KKP-10 SPT-1 # 18 7FT	

B. MECHANICAL PARTS

NO.	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	17653-528-110	WINDOW-FRONT	PVC 1.0T	1	
2	17653-528-210	WINDOW-FL	PVC 1.0T	1	
3	17654-524-910	FILTER-FL	ACRYL 1.0T	1	
4	16001-582-210	PANEL-FRONT	HIPS 94HB	1	
5	17624-594-210	KNOB-TUNING	ABS 94HB	1	
6	17624-590-020	KNOB-CAP(1) MODE	ABS 94HB	1	
7	17624-594-310	KNOB-TACT	ABS 94HB	1	
8	17624-594-610	KNOB-POWER	ABS 94HB	1	
9	16624-548-910	BRKT-PANEL	SBHG 1.0T	1	
10-1	17623-553-320	KNOB-RFAME, A	ABS 94HB	1	
10-2	17623-553-320	KNOB-FRAME, B	ABS 94HB	1	
11	16604-531-810	HOLDER-LED	ABS 94HB	2	
12	17624-590-710	KNOB-PUSH, S	ABS 94HB	1	
13	17624-590-310	KNOB-TACT (2)	ABS 94HB	1	
14	16003-503-210	CABINET	EGI 0.8T	1	
15	15684-507-710	HEAT-SINK, S	AL	1	
16	13339-544-040	JACK-AUX	2P	1	
17	16122-531-310	CHASSIS-REAR	EGI 0.8T	1	
18	16603-503-820	CLAMPER-CORD	NYLON 66 BLK	1	
19	16603-502-410	BAND-CORD	P.P BLK	1	
20	16604-516-010	HOLDER-ANT	66 NYLON p4HB BLK	1	
21	13304-503-610	TERMINAL-ANT	4P	1	
22	16604-531-710	LOCKING-SPACER	8MM	1	
23	16121-501-910	CHASSIS-MAIN	EGI 0.8T	1	
24	16074-501-610	FOOT	PE SOFT BLK	2	
25	16074-500-910	FOOT-STOPPER	ABS 94H BLK	2	
26	17128-640-083	SCREW-TAP, TH	3S-4x8 FE FZB	4	
27	17148-530-083	SCREW-TAP, RH	2S-3x8 FE FZB	10	
28	17458-130-081	SCREW-TAP, TITE. BH	B-3x8 FZY	20	